

6DE7

Dual Triode With Medium-Mu Unit and Low-Mu Unit

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Design-Maximum Values*):

Voltage (AC or DC) 6.3 ± 0.6 volts

Current at heater volts = 6.3 0.900 amp

Peak heater-cathode voltage (Each unit):

Heater negative with
respect to cathode. 200 max. volts

Heater positive with
respect to cathode. 200^a max. volts

Direct Interelectrode Capacitances (Approx.):^b

	Unit No.1	Unit No.2	
Grid to plate	4.0	8.5	$\mu\mu\text{f}$
Grid to cathode and heater. . .	2.2	5.5	$\mu\mu\text{f}$
Plate to cathode and heater . .	0.52	1.0	$\mu\mu\text{f}$

Characteristics, Class A₁ Amplifier:

	Unit No.1	Unit No.2	
Plate Voltage	250	60 150	volts
Grid Voltage.	-11	0 -17.5	volts
Amplification Factor.	17.5	- 6	
Plate Resistance (Approx.). . .	8750	- 925	ohms
Transconductance.	2000	- 6500	μmhos
Plate Current	5.5	80 ^c 35	ma
Plate Current for grid volts = -24	-	- 10	ma
Grid Voltage (Approx.) for plate $\mu\text{a} = 10$	-20	- -	volts
Grid Voltage (Approx.) for plate $\mu\text{a} = 50$	-	- -44	volts

Mechanical:

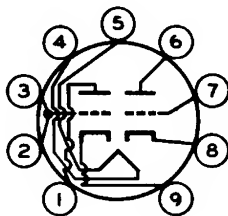
Operating Position. Any
Type of Cathodes. Coated Unipotential
Maximum Overall Length. 2-5/8"
Maximum Seated Length 2-3/8"
Length, Base Seat to Bulb Top (Excluding tip). $2" \pm 3/32"$
Diameter. 0.750" to 0.875"
Dimensional Outline See *General Section*
Bulb. T6-1/2
Base. Small-Button Noval 9-Pin (JEDEC No.E9-1)



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Basing Designation for BOTTOM VIEW. 9HF

Pin 1 - Plate of
Unit No.2
Pin 2 - Grid of
Unit No.2
Pin 3 - Grid of
Unit No.2
Pin 4 - Heater
Pin 5 - Heater



Pin 6 - Plate of
Unit No.1
Pin 7 - Grid of
Unit No.1
Pin 8 - Cathode of
Unit No.1
Pin 9 - Cathode of
Unit No.2

VERTICAL-DEFLECTION OSCILLATOR

Values are for Unit No.1

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system^d

DC PLATE VOLTAGE.	330 max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE.	400 max.	volts
CATHODE CURRENT:		
Peak.	77 max.	ma
Average	22 max.	ma
→ PLATE DISSIPATION	1.5 max.	watts

Maximum Circuit Values:

Grid-Circuit Resistance:

For grid-resistor-bias or cathode-bias operation. 2.2 max. megohms

VERTICAL-DEFLECTION AMPLIFIER

Values are for Unit No.2

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system^d

DC PLATE VOLTAGE.	275 max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE ^a	1500 max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE.	250 max.	volts
CATHODE CURRENT:		
Peak.	175 max.	ma
Average	50 max.	ma
PLATE DISSIPATION	7 max.	watts

Maximum Circuit Values:

Grid-Circuit Resistance:

For grid-resistor-bias or cathode-bias operation. 2.2 max. megohms

^a The dc component must not exceed 100 volts.

^b Without external shield.

^c This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.

^d As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

→ Indicates a change.



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DUAL TRIODE
With Medium-Mu Unit and Low-Mu Unit

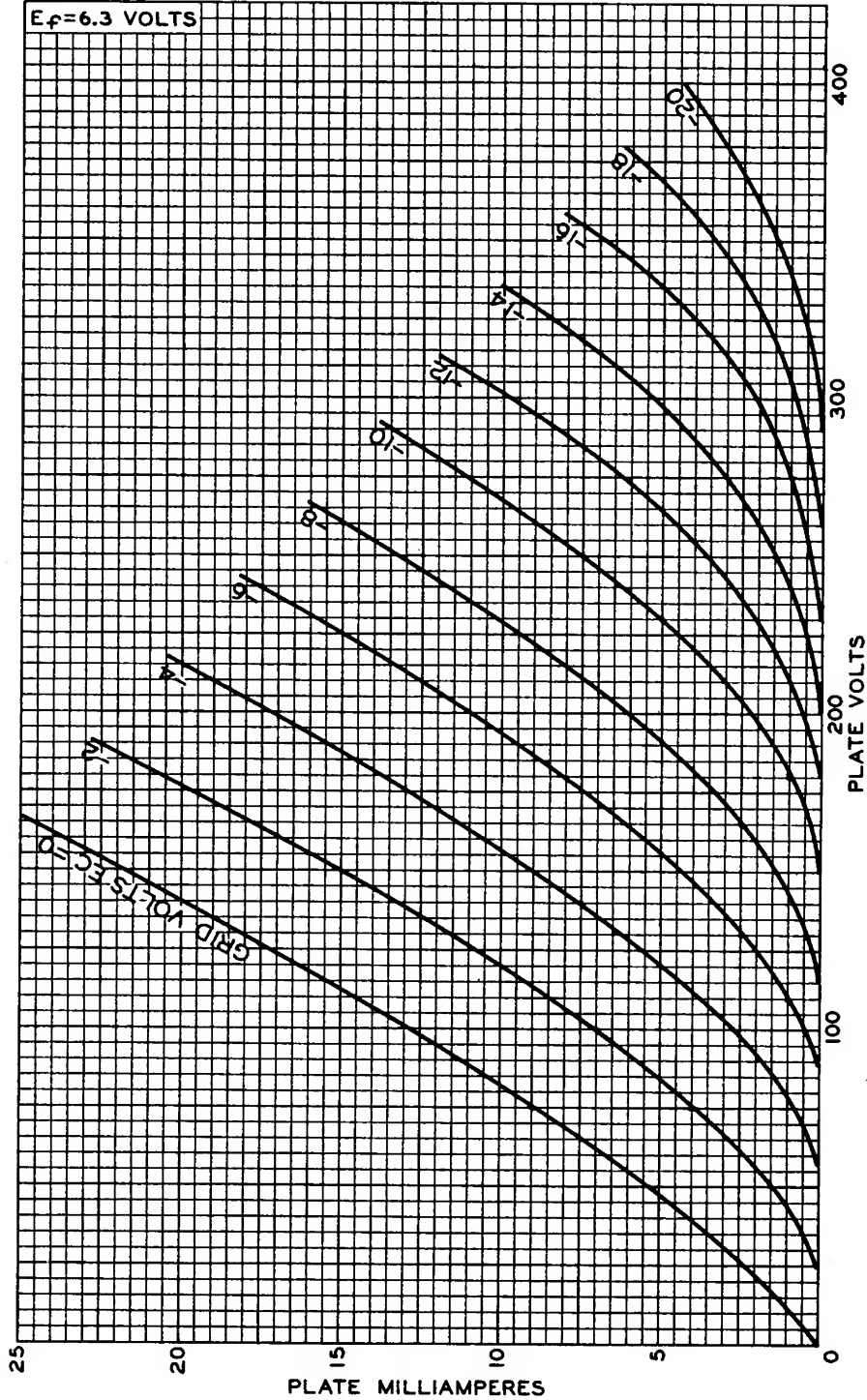
* This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one vertical scanning cycle. In a 525-line, 30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milliseconds.

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AVERAGE PLATE CHARACTERISTICS
UNIT N21

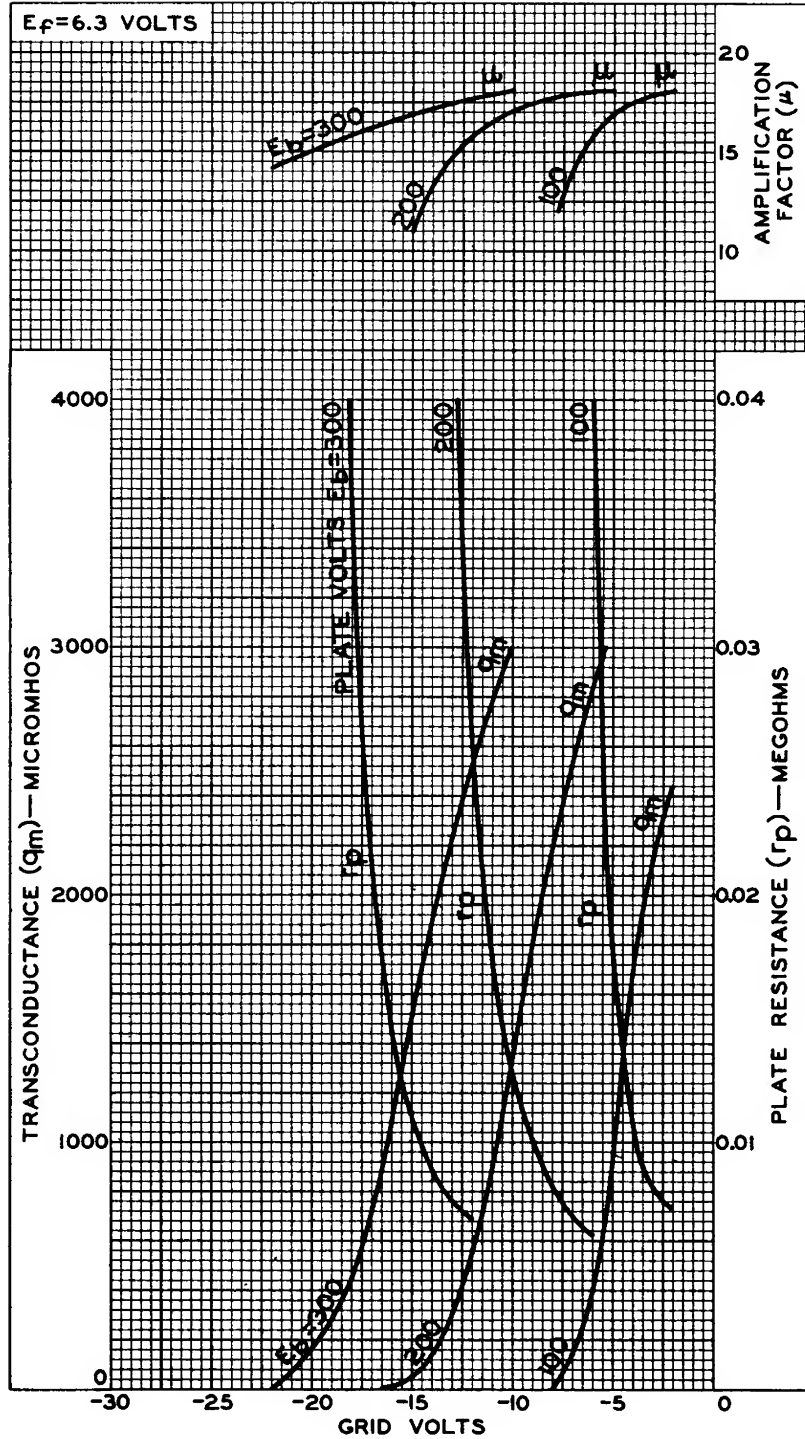




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AVERAGE CHARACTERISTICS
UNIT №1

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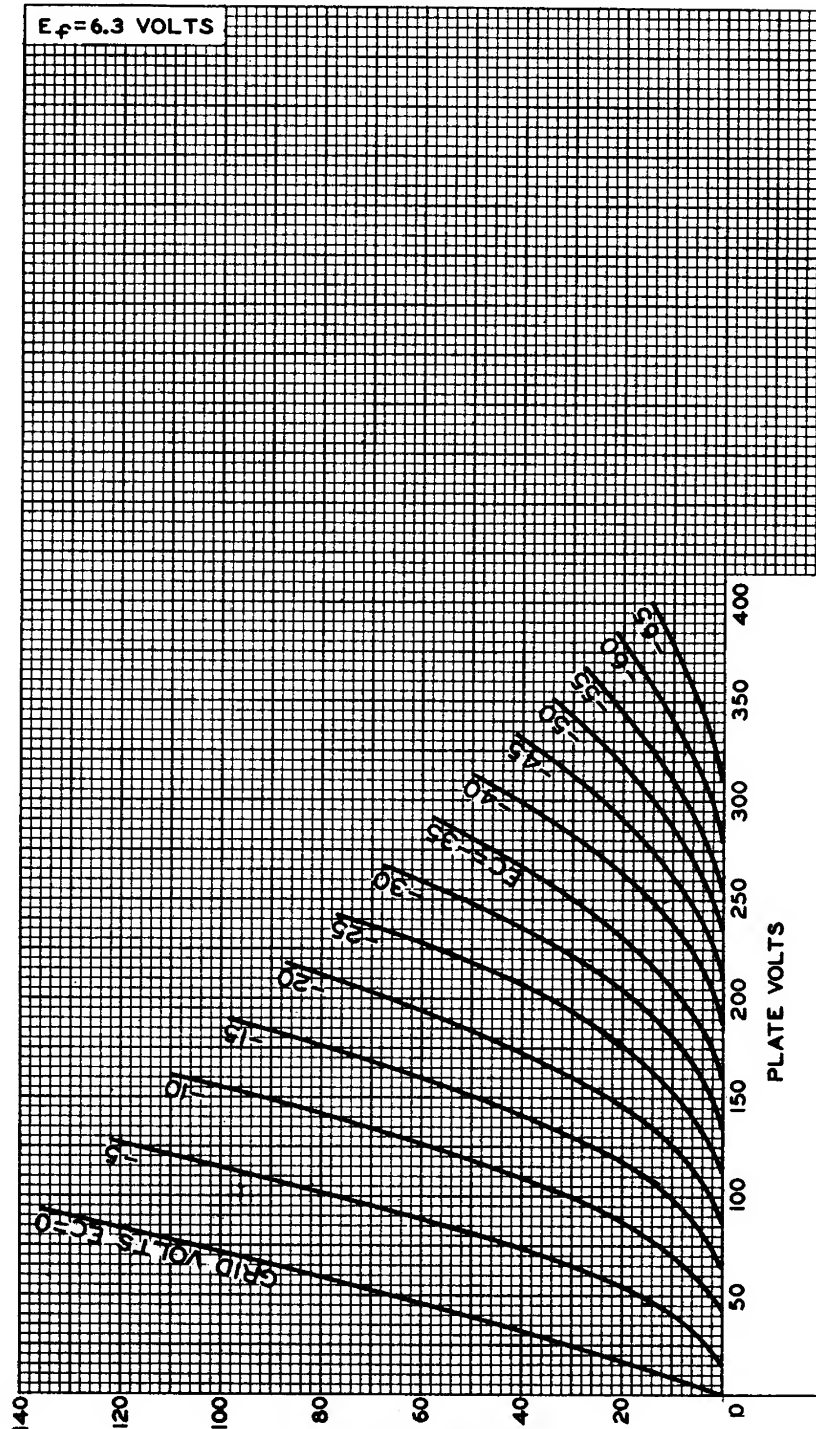


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AVERAGE PLATE CHARACTERISTICS UNIT No 2

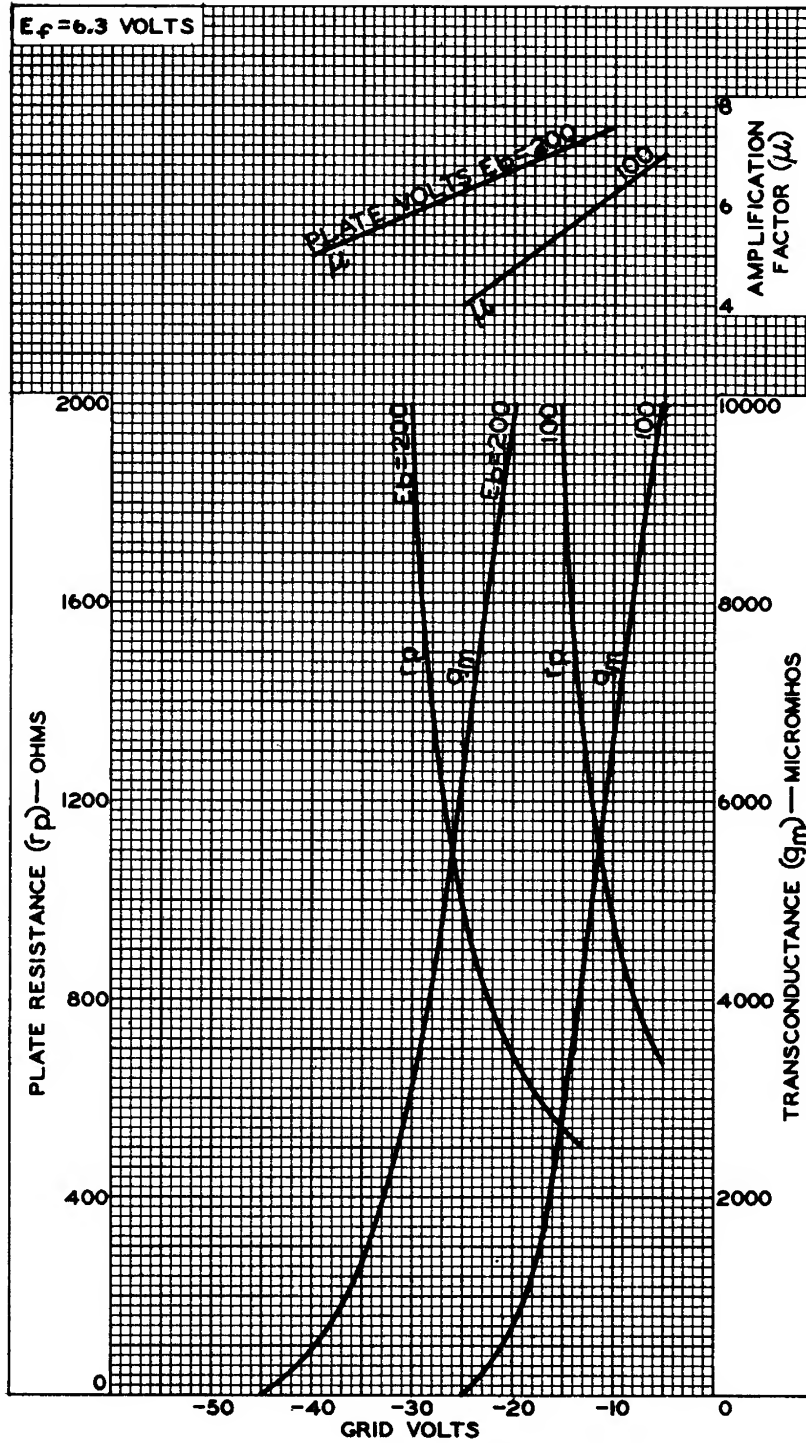




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AVERAGE CHARACTERISTICS
UNIT No 2

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ELECTRON TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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